# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/03/2015 10:18 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/21/2015 09:33 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124418 | -1 | 5.98 | 124205 | 5.95 |
| Blue | F | SSC | 125000 | 123514 | -2 | 3.09 | 124343 | 2.76 |
| Blue | E | FITC | 17224 | 17061 | -1 | 2.68 | 963 | 9.63 |
| Blue | D | PE | 22462 | 22073 | -2 | 2.24 | 993 | 9.00 |
| Blue | B | PerCP-Cy5-5 | 63940 | 62835 | -2 | 3.00 | 1650 | 14.48 |
| Blue | A | PE-Cy7 | 72480 | 71487 | -2 | 4.12 | 925 | 27.96 |
| Red | C | APC | 63778 | 62847 | -2 | 2.49 | 3542 | 7.97 |
| Red | A | APC-Cy7 | 97254 | 94560 | -3 | 2.67 | 1866 | 7.79 |
| Violet | B | V450 | 10730 | 10345 | -4 | 3.47 | 643 | 8.62 |
| Violet | A | V500 | 42147 | 40735 | -4 | 3.09 | 2299 | 6.05 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 18557 | 33.32 | 628 | 8 | N/A | N/A | Pass |
| Blue | F | SSC | 61715 | 1.88 | 538 | 11 | N/A | N/A | Pass |
| Blue | E | FITC | 104 | 37.89 | 545 | 6 | 0.0217 | 177 | Pass |
| Blue | D | PE | 205 | 26.80 | 538 | 6 | 0.1433 | 147 | Pass |
| Blue | B | PerCP-Cy5-5 | 198 | 45.08 | 624 | 10 | 0.0094 | 60 | Pass |
| Blue | A | PE-Cy7 | 66 | 114.45 | 683 | 10 | 0.0118 | 12 | Pass |
| Red | C | APC | 331 | 26.08 | 584 | 0 | 0.0220 | 27 | Pass |
| Red | A | APC-Cy7 | 117 | 38.09 | 564 | -1 | 0.0051 | 906 | Pass |
| Violet | B | V450 | 68 | 45.85 | 476 | 2 | 0.0399 | 1978 | Pass |
| Violet | A | V500 | 150 | 23.56 | 505 | 2 | 0.0125 | 284 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.62 | 47.70 - 71.54 | N/A | N/A | -31.38 | -31.14 | 0.71 |
| Blue | 20.46 | 16.35 - 24.53 | 1.26 | 1.00 - 1.50 | 0.00 | 0.00 | 1.16 |
| Red | 15.34 | 13.09 - 19.63 | N/A | N/A | 31.70 | 31.92 | 1.08 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.84

## Threshold

Threshold (FSC): 9658

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments